

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP 2004/011028

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> H01M 4/02, H01M 4/62, H01M 4/58, H01M 4/48, H01M 10/40

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> H01M 4/00-4/62, H01M 10/40

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1191131 A1 (SHOWA DENKO K. K.) 2002.03.27,	35-37
Y	Claims 17-24, Examples 6-8 & WO 00/58536 A1 & JP 3461805 B & US 6489026 B1	1-37
Y	JP 10-027601 A (SANYO ELECTRIC CO LTD) 1998.01.27, Claim 1 (Family: None)	1-37
Y	JP 2001-015170 A (SONY CORP) 2001.01.19, Claims 1-5 (Family: None)	1-37
Y	JP 05-174820 A (FUJI PHOTO FILM CO LTD) 1993.07.13, Claims 1 and 6, [0009] (Family: None)	1-37
Y	JP 10-284055 A (MITSUBISHI ELECTRIC CORP), 1998.10.23, Claims 1-3 (Family: None)	1-37
Y	JP 2001-196052 A (SONY CORP), 2001.07.19, Claims 1-14 (Family: None)	1-37



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

10.11.2004

Date of mailing of the international search report

14.12.2004

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## INTERNATIONALSEARCHREPORT

International application No.

**PCT/JP2004/011028****C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 07-211320 A (YUASA CORP), 1995.08.11, Claims 1 and 2 (Family: None)	1-37
Y	JP 11-329433 A (KAO CORP), 1999.11.30, Claims 1-6 (Family: None)	1-37
Y	JP 2000-195550 A (TOSHIBA CORP), 2000.07.14, Claim 1, [0026], Examples (Family: None)	1-37
Y	JP 11-149824 A (SHOWA DENKO K. K.), 1999.06.02, Claims 1-18 & US 6190805 B1 & US 2001/11119 A1 & US 2002/161146 A1	34
PY	JP 2003-223896 A (HITACHI LTD), 2003.08.08, Claims 1 and 2 (Family: None)	1-37
EA	JP 2004-220909 A (MITSUBISHI MATERIALS CORP), 2004.08.05, Claims 1-12 (Family: None)	1-37
EA	JP 2004-220910 A (MITSUBISHI MATERIALS CORP), 2004.08.05, Claims 1-13 (Family: None)	1-37